

ABSTRACT OF THE DISCLOSURE

A flame front diverter element is designed to cause a minimal pressure drop under normal venting conditions when process vapors need to pass through the explosion protection system and to other equipment connected to the manifold system. In the event of a deflagration, the flame front diverter directs the high-speed pressure wave towards a bi-directional rupturable disc causing the rupturable disc to open thus creating an aspiration effect on the opposite bi-directional rupturable disc.